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        10         20         30         40         50
GACGGATCGGGAGATCTCCCGATCCCCTATGGTCGACTCTCAGTACAATC

        60         70         80         90        100
TGCTCTGATGCCGCATAGTTAAGCCAGTATCTGCTCCCTGCTTGTGTGTT

       110        120        130        140        150
GGAGGTCGCTGAGTAGTGCGCGAGCAAAATTTAAGCTACAACAAGGCAAG

       160        170        180        190        200
GCTTGACCGACAATTGAGCTCGGTACCCGGGGATCCGGTAAGGACCAG

       210        220        230        240        250
CTTCTTTGGGAGAGAACAGACGCAGGGGCGGGAGGGAAAAAGGGAGAGGC

       260        270        280        290        300
AGACGTCACTTCCCCTTGGCGGCTCTGGCAGCAGATTGGTCGGTTGAGTG

       310        320        330        340        350
GCAGAAAGGCAGACGGGGACTGGGCAAGGCACTGTCGGTGACATCACGGA

       360        370        380        390        400
CAGGGCGACTTCTATGTAGATGAGGCAGCGCAGAGGCTGCTGCTTCGCCA

       410        420        430        440        450
CTTGCTGCTTCACCACGAAGGAGTTCCCGTGCCCTGGGAGCGGGTTCAGG

       460        470        480        490        500
ACCGCTGATCGGAAGTGAGAATCCCAGCTGTGTGTCAGGGCTGGAAAGGG

       510        520        530        540        550
CTCGGGAGTGCGCGGGGCAAGTGACCGTGTGTGTAAAGAGTGAGGCGTAT

       560        570        580        590        600
GAGGCTGTGTCGGGGCAGAGGCCCAAGATCTCAAGGGCCCATAACATGTG

       610        620        630        640        650
TACCATCGATTGCAGGGGAGATACCATGATCACGAAGGTGGTTTTCCCAG

       660        670        680        690        700
GGCGAGGCTTATCCATTGCACTCCGGATGTGCTGACCCCTGCGATTTCCC

       710        720        730        740        750
CAAAGCTTGGAAACTCGACTGCATAATTTGTGGTAGTGGGGGACTGCGTT

       760        770        780        790        800
CGCGCTTTCCCCTGACTTTCTGGAGTTTCAAAAGTAGACTGTACGCTAAC

       810        820        830        840        850
CGGATCCTCTAGAGTCGACCTGCAGGCATGCAAGACAATTAGCAGGCA

       860        870        880        890        900
TGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCT

       910        920        930        940        950
GGGGCTCTAGGGGGTATCCCCACGCGCCCTGTAGCGGCGCATTAAGCGCG
```

Fig. 1A

960 970 980 990 1000
GCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCT

1010 1020 1030 1040 1050
AGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTCGCCG

1060 1070 1080 1090 1100
GCTTTCCCCGTCAAGCTCTAAATCGGGGCATCCCTTTAGGGTTCCGATTT

1110 1120 1130 1140 1150
AGTGCTTTACGGCACCTCGACCCCAAAAAACTTGATTAGGGTGATGGTTC

1160 1170 1180 1190 1200
ACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGG

1210 1220 1230 1240 1250
AGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTC

1260 1270 1280 1290 1300
AACCCTATCTCGGTCTATTCTTTTGATTTATAAGGGATTTTGGGGATTTC

1310 1320 1330 1340 1350
GGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAACGCGAATT

1360 1370 1380 1390 1400
AATTCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCC

1410 1420 1430 1440 1450
CAGGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAG

1460 1470 1480 1490 1500
GTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGC

1510 1520 1530 1540 1550
ATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCGCCCATCCCG

1560 1570 1580 1590 1600
CCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAAT

1610 1620 1630 1640 1650
TTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCTGCCTCTGAGCTATTCC

1660 1670 1680 1690 1700
AGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTC

1710 1720 1730 1740 1750
CCGGGAGCTTGTATATCCATTTTCGGATCTGATCAGCACGTGTTGACAAT

1760 1770 1780 1790 1800
TAATCATCGGCATAGTATATCGGCATAGTATAATACGACAAGGTGAGGAA

1810 1820 1830 1840 1850
CTAAACCATGGCCAAGTTGACCAGTGCCGTTCCGGTGCTCACCGCGCGCG

1860 1870 1880 1890 1900
ACGTCGCCGGAGCGGTCGAGTTCTGGACCGACCGGCTCGGGTTCTCCCGG

Fig. 1B

```
      1910      1920      1930      1940      1950
GACTTCGTGGAGGACGACTTCGCCGGTGTGGTCCGGGACGACGTGACCCT

      1960      1970      1980      1990      2000
GTTCATCAGCGCGGTCCAGGACCAGGTGGTGCCGGACAACACCCTGGCCT

      2010      2020      2030      2040      2050
GGGTGTGGGTGCGCGGCCTGGACGAGCTGTACGCCGAGTGGTCGGAGGTC

      2060      2070      2080      2090      2100
GTGTCCACGAACTTCCGGGACGCCTCCGGGCCGGCCATGACCGAGATCGG

      2110      2120      2130      2140      2150
CGAGCAGCCGTGGGGGCGGGAGTTCGCCCTGCGCGACCCGGCCGGCAACT

      2160      2170      2130      2190      2200
GCGTGCACTTCGTGGCCGAGGAGCAGGACTGACACGTGCTACGAGATTTC

      2210      2220      2230      2240      2250
GATTCCACCGCCGCCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCG

      2260      2270      2280      2290      2300
GGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGTTCT

      2310      2320      2330      2340      2350
TCGCCCACCCCAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGC

      2360      2370      2380      2390      2400
AATAGCATCACAAATTTCACAAATAAAGCATTTTTTTCACTGCATTCTAG

      2410      2420      2430      2440      2450
TTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGTATACCGT

      2460      2470      2480      2490      2500
CGACCTCTAGCTAGAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTG

      2510      2520      2530      2540      2550
TGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCAT

      2560      2570      2580      2590      2600
AAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTG

      2610      2620      2630      2640      2650
CGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTG

      2660      2670      2680      2690      2700
CATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCG

      2710      2720      2730      2740      2750
CTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGC

      2760      2770      2730      2790      2800
GGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAA

      2810      2820      2830      2840      2850
TCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGC
```

Fig. 1C

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      2860        2870        2880        2890        2900
CAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCC

      2910        2920        2930        2940        2950
CCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAAC

      2960        2970        2980        2990        3000
CCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGT

      3010        3020        3030        3040        3050
GCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTC

      3060        3070        3080        3090        3100
TCCCTTCGGGAAGCGTGGCGCTTTCTCAATGCTCACGCTGTAGGTATCTC

      3110        3120        3130        3140        3150
AGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCC

      3160        3170        3180        3190        3200
CGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCA

      3210        3220        3230        3240        3250
ACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGG

      3260        3270        3280        3290        3300
ATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTG

      3310        3320        3330        3340        3350
GCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGC

      3360        3370        3380        3390        3400
TGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAA

      3410        3420        3430        3440        3450
CAAACCACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATTAC

      3460        3470        3480        3490        3500
GCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGT

      3510        3520        3530        3540        3550
CTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGAGA

      3560        3570        3580        3590        3600
TTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTT

      3610        3620        3630        3640        3650
TAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAAT

      3660        3670        3680        3690        3700
GCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCC

      3710        3720        3730        3740        3750
ATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTT

      3760        3770        3780        3790        3800
ACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGG
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Fig. 1D

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      3810      3820      3830      3840      3850
CTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGA

      3860      3870      3880      3890      3900
AGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCG

      3910      3920      3930      3940      3950
GGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTG

      3960      3970      3980      3990      4000
CCATTGCTACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCA

      4010      4020      4030      4040      4050
TTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTT

      4060      4070      4080      4090      4100
GTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCGATCGTTGTCAGAAGTA

      4110      4120      4130      4140      4150
AGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCT

      4160      4170      4180      4190      4200
CTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTC

      4210      4220      4230      4240      4250
AACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCC

      4260      4270      4280      4290      4300
CGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTG

      4310      4320      4330      4340      4350
CTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACC

      4360      4370      4380      4390      4400
GCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTT

      4410      4420      4430      4440      4450
CAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGG

      4460      4470      4480      4490      4500
CAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACT

      4510      4520      4530      4540      4550
CATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTC

      4560      4570      4580      4590      4600
TCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGG

      4610      4620      4630
GTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTC
```
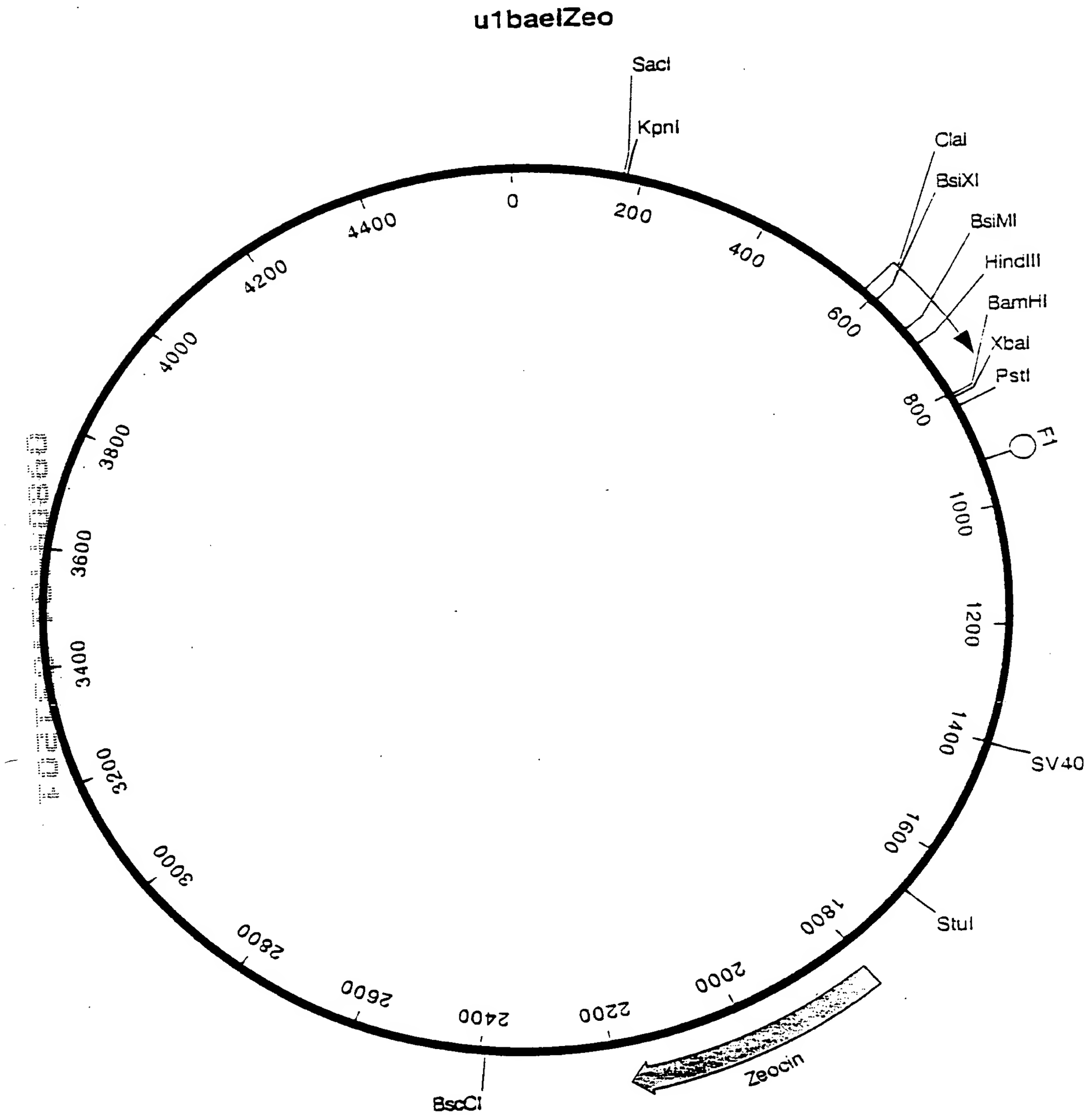

Fig. 1E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Zeocin
BscCI
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600
800
1000
1200
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Fig. 2

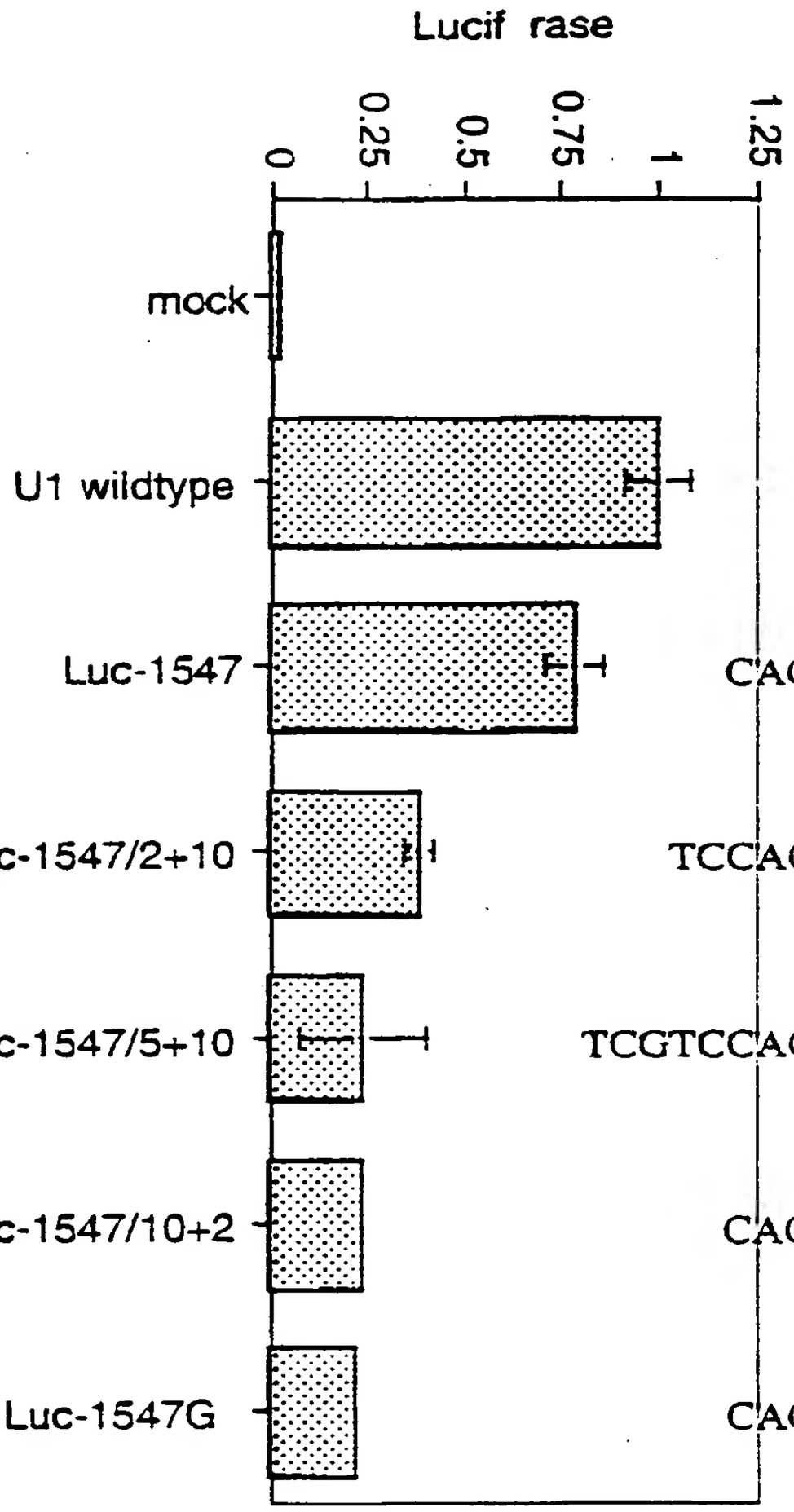

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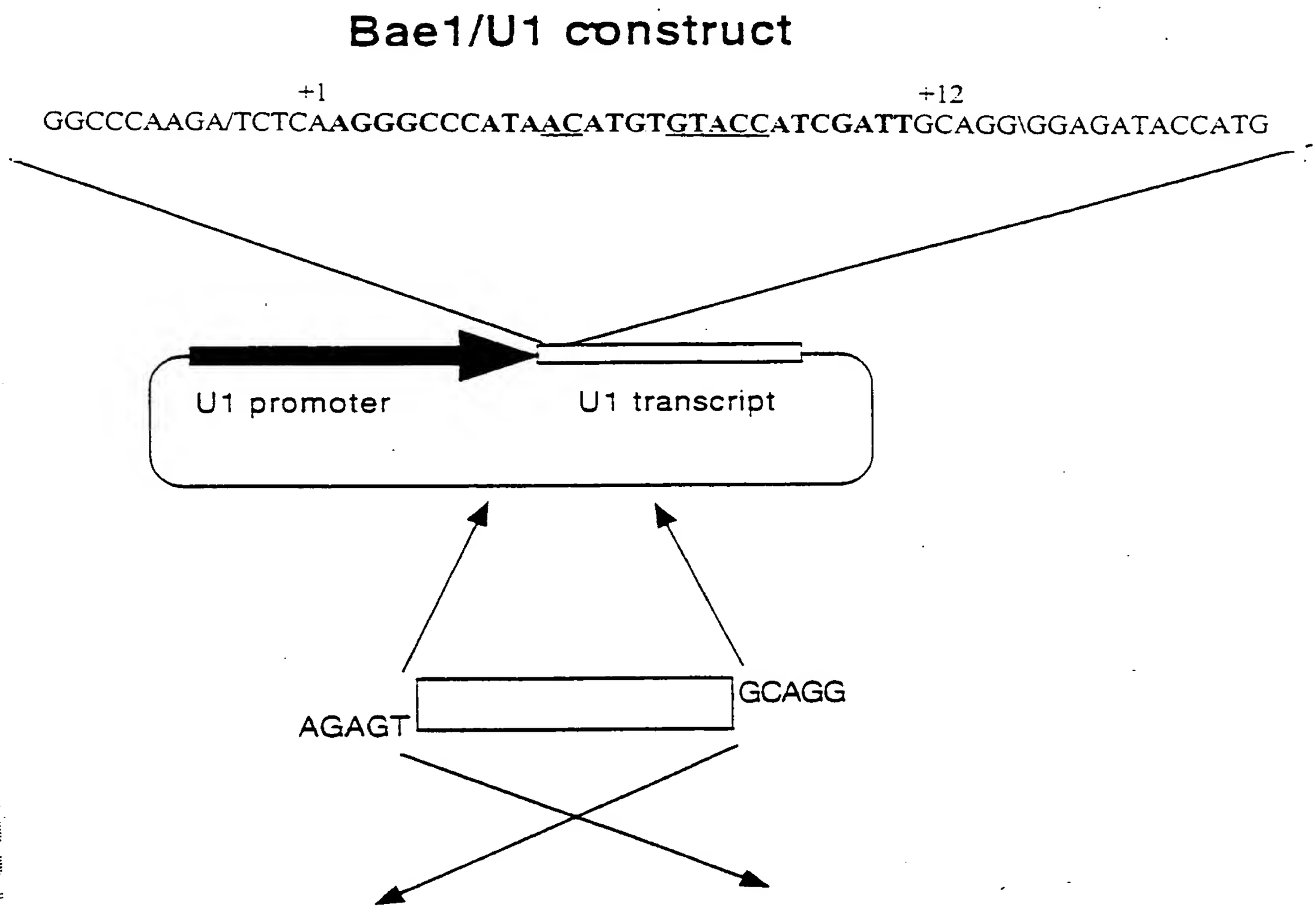
Fig. 3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GCAGG

Fig. 4